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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/758335-Conf. #6410	
	Filing Date	January 15, 2004	
	First Named Inventor	Seth J. ORLOW	
	Art Unit	1614	
	Examiner Name	J. D. Anderson	
Total Number of Pages in This Submission	4	Attorney Docket Number	PFI-016CIPDIV/71369.368US1

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WILMER CUTLER PICKERING HALE AND DORR LLP		
Signature			
Printed name	Ann-Louise Kerner, Ph.D.		
Date	April 20, 2006	Reg. No.	33,523

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
Dated: April 20, 2006	Signature:  Rochelle Capobianco



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. 10/758,335 Art Unit: 1614  
Applicant: Orlow *et al.* Examiner: James D. Anderson  
Date Filed: January 15, 2004 Conf. No. 6410  
Docket No. 71369.368 and PFI-016CIPDV Cust. No. 23483  
Title: METHODS AND COMPOSITIONS THAT AFFECT MELANOGENESIS

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)**

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04/20/2006  
Date of Mail Deposit

Rochelle Capobianco  
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**RESPONSE TO RESTRICTION REQUIREMENT**

Dear Sir:

In the Restriction Requirement mailed on *April 3, 2006*, the Examiner restricted the pending claims of the above application into the following five Groups:

**Group I: Claims 1-17, 32-36 and 38-43**, drawn to a method of screening for compounds that inhibit melanogenesis comprising treating cells expressing a tyrosine-encoding gene with a test compound that inhibits Melano-genesis. (Claims 32-36 and 38-43 will be examined with this Group to the extent the method reads on inhibiting P protein.)

**Group II: Claims 18-34 and 37-43**, drawn to a method of screening for compounds that increase melanogenesis comprising treating cells expressing a tyrosine-encoding gene with a test compound that increases Melanogenesis. (Claims 32-34 and 37-43 will be examined with this Group to the extent the method reads on increasing P protein.)

**Group III: Claims 44-56**, drawn to methods of decreasing melanin production in a melanocyte comprising contacting the melanocyte with an effective amount of a compound that effects an alteration in late endosomal/lyso-somal trafficking and **Claims 57-69**, drawn to a method of reducing skin pigmentation comprising contacting skin with a pharmaceutically effective amount of a compound that effects an alteration in endosomal/lysosomal trafficking.

**Group IV: Claims 70-73**, drawn to a method of activating melanogenesis comprising contacting a melanocyte with diminished or absent P protein activity with a compound that inhibits ATPase.

**Group V: Claims 74-77**, drawn to a method of treating tyrosinase-positive, oculocutaneous albinism in an individual in need thereof comprising contacting the skin of the individual with a pharmaceutically effective amount of a compound that inhibits ATPase.

In response to the Restriction Requirement, Applicants elect the claims of **Group III**, namely **claims 44-56 and 57-69**.

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Response dated April 20, 2006  
Reply to Office Action dated April 3, 2006

**CONCLUSION**

Claims 1-77 remain pending in the instant application.

No fees are believed to be due in connection with this communication; however, if any fees are due, please charge the requisite fees to Deposit Account No. 08-0219.

If the Examiner has any questions, he is requested to contact the undersigned at the number listed below.

Respectfully submitted,

Date: April 20, 2006



Ann-Louise Kerner, Ph.D.

Reg. No. 33,523

Attorney/Agent for Applicants

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